

Bureau of Environmental Health
 7178 Gateway Drive Columbia, MD 21046
 (410) 313-2640 Fax (410) 313-2648
 TDD (410) 313-2323 Toll Free 1-866-313-6300
 website: www.hchealth.org

Maura J. Rossman, M.D., Health Officer

RECEIPT DATE: 6/24/14

ONSITE SEWAGE DISPOSAL SYSTEM

P 554519

INSTALLATION
 APPROVAL DATE: _____

**PERMIT
 CONSTRUCTION**

A _____

PROPERTY ADDRESS: 2818 Bridal Wreath Court

SUBDIVISION: Belle Haven Estates

LOT: 15

TAX ID: 04-373790

CONTRACTOR: Ben Lewis Plumbing

EMAIL: _____

CONTRACTOR ADDRESS: 23407 Frederick Road, Clarksburg, MD 20871

PHONE: 301-674-3324

PROPERTY OWNER: K Hovnanian Homes

EMAIL: _____

OWNER ADDRESS: 1802 Brightseat Road, Landover, MD 20785

PHONE: 301-683-6268

BAT UNIT MODEL: HOOT ABNR 600

BAT UNIT SIZE: 600 GPD

PUMP CHAMBER CAPACITY (GALLONS): _____

PUMP SIZE: _____

NUMBER OF BEDROOMS: 4

HOUSE SQ. FT. _____

APPLICATION RATE: 0.8

DISTRIBUTION SYSTEM: GRAVITY FED

LOW PRESSURE DOSED

TRENCHES:	LINEAR FEET REQUIRED: <u>SEE BAT PLAN 146'</u>	INLET DEPTH: <u>SEE BAT PLAN 4.5'</u>
	TRENCH WIDTH: <u>SEE BAT PLAN 2'</u>	MAXIMUM BOTTOM DEPTH: <u>SEE BAT PLAN 6.5'</u>
	MINIMUM SPACE BETWEEN TRENCHES: <u>SEE BAT PLAN 6'</u>	EFFECTIVE AREA BEGINNING DEPTH: <u>SEE BAT PLAN</u>
LOCATION:	PER APPROVED SITE PLAN. SEWAGE DISPOSAL AREA AND BAT UNIT LOCATION MUST BE STAKED BY LICENSED SURVEYOR PRIOR TO PRE-CONSTRUCTION INSPECTION.	
NOTES:	Set BAT unit per plan. <u>2x73' Trenches</u>	

ISSUED BY: Robert Bricker

ISSUE DATE: 7/24/14

EXPIRATION DATE: 7/24/15

NOTE: CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION INSPECTION PRIOR TO BEGINNING ANY INSTALLATION

NOTE: CONTRACTOR MUST SCHEDULE AN INSPECTION AND GAIN APPROVAL OF ALL COMPONENTS PRIOR TO COVERING

NOTE: STONE MUST BE APPROVED BY HEALTH DEPARTMENT AND GRAVEL TICKET MUST BE AVAILABLE FOR REVIEW.

NOTE: WATERTIGHT SEPTIC TANKS REQUIRED

NOTE: ALL PARTS OF SEPTIC SYSTEM SHALL BE AT LEAST 100 FEET DOWNGRADIENT FROM ANY WATER WELL

NOTE: MANHOLE RISERS REQUIRED ON ALL SEPTIC TANKS AND PUMP CHAMBERS

NOTE: AN ELECTRICAL PERMIT IS REQUIRED FOR INSTALLATION OF ANY ELECTRICAL COMPONENTS OF THE SYSTEM

NEITHER THE HOWARD COUNTY COUNCIL NOR THE HEALTH DEPARTMENT IS RESPONSIBLE FOR THE SUCCESSFUL OPERATION OF ANY SYSTEM.

PERMITTEE RESPONSIBLE FOR OBTAINING FINAL APPROVAL ON THIS PERMIT.

CALL 410-313-1771 TO SCHEDULE INSPECTIONS.

NOT TO SCALE

See As-Built Drawing
On Separate Sheet

ROAD NAME

TRENCH/DRAINFIELD DATA

WIDTH	INLET	BOTTOM
<u>2'</u>	<u>3.5'</u>	<u>6.5'</u>
NUMBER OF TRENCHES		<u>2</u>
TOTAL LENGTH		<u>140'</u>
ABSORPTION AREA		<u>280' x SW</u>
DISTRIBUTION BOX LEVEL		<u>Yes</u>
DISTRIBUTION BOX BAFFLE		<u>Yes</u>
DISTRIBUTION BOX PORT		<u>Yes</u>

SEPTIC TANK DATA

SEPTIC TANK I LEVEL	<u>yes</u>
MANUFACTURER	<u>Major Bros</u>
CAPACITY	<u>1600 GNS</u> GAL
SEAM LOC	<u>TOP</u>
TANK LID DEPTH	<u>2'</u>
BAFFLES	<u>yes</u>
BAFFLE FILTER	<u>N/A</u>
MANHOLE LOC	<u>Front/rear</u>
6" PORT LOC	<u>N/A</u>
WATERTIGHT TEST	<u>N/A</u>
SLOTTED	<u>yes</u>
DATE ON LID	<u>N/A</u>

PUMP/SEPTIC TANK LEVEL

MANUFACTURER	_____
CAPACITY	_____ GAL
SEAM LOC	_____
TANK LID DEPTH	_____
BAFFLES	_____
BAFFLE FILTER	_____
MANHOLE LOC	_____
6" PORT LOC	_____
WATERTIGHT TEST	_____
SLOTTED	_____
DATE ON LID	_____

PRE-CONSTRUCTION:

8/7/2014 Install two 73' trenches on contour across the top of the easement. Set the tank near where shown on the plan but make sure it is 20' from the house. RB

INSTALLATION:

8/25/14 Contractor explained that no one entitled has been on site. Explained that a certified RAT installer not be present until the RAT install. Site will be shut down to one it not present during install. RM Septic measurements taken for As-built, trenches 2' wide, 6' ETE stone looks good. Also informed contractor to maintain no more than 2% fall on plumbing and 'step' pipe as needed. Contractor to replace new Dbox w/ one larger and more suitable for application. OK to cover covered tank, piping and trenches. Need to re-insp Dbox. RM 8/26/14 New Dbox installed connections made to RAT unit. Need start-up of system prior to

FINAL INSPECTOR _____

DATE OF APPROVAL _____

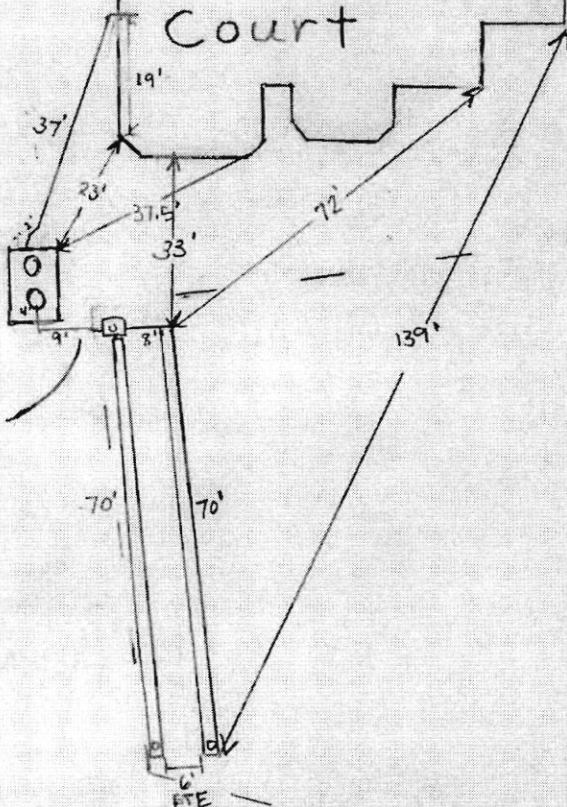
Final Approval RM

H0-95-0668

40'

89'

2818
Bridalwreath
Court



1 1/4"
F.M.

70'

70'

139'

C.F.T.E.

GENERAL NOTES

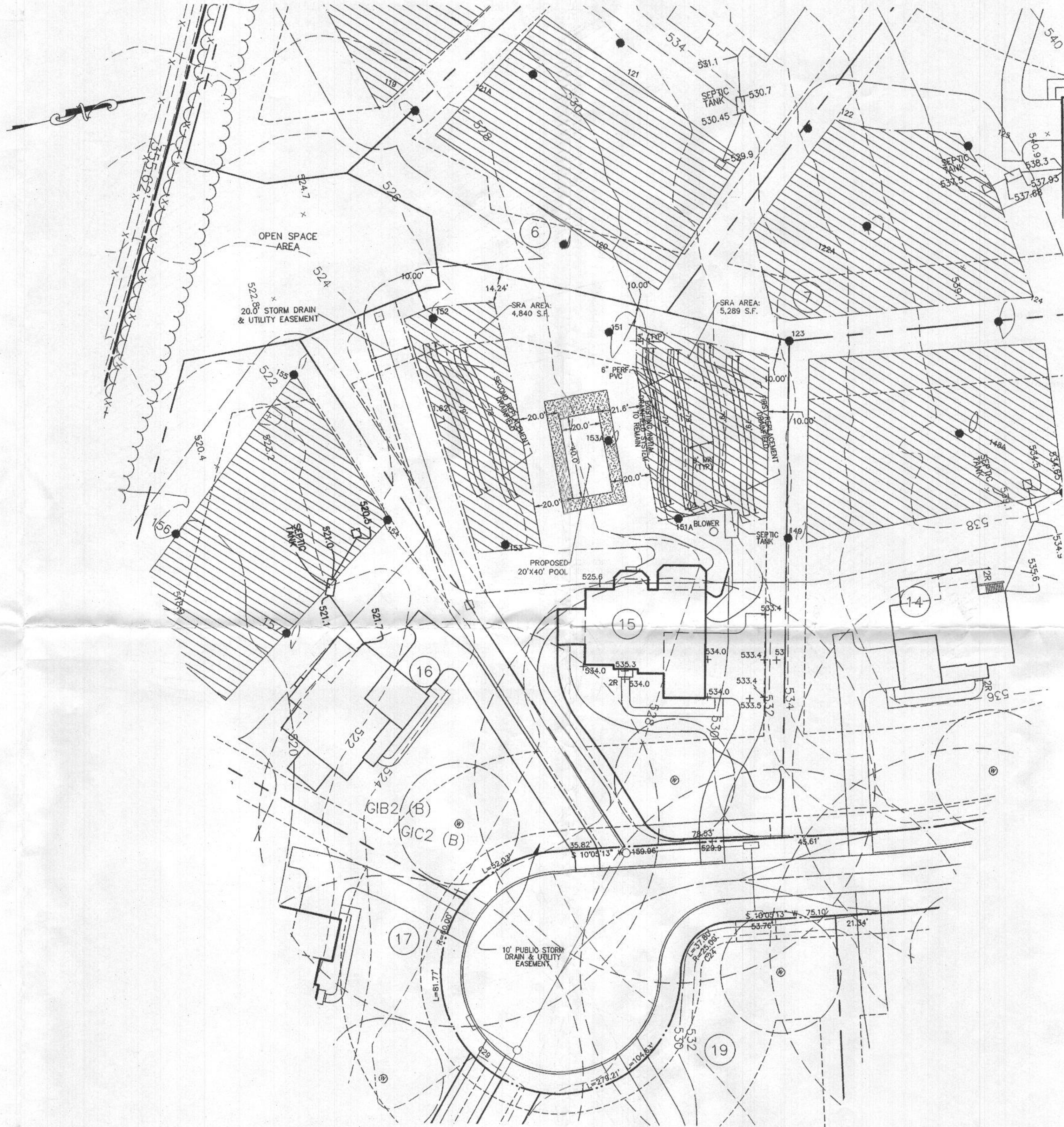
- OWNER: DAVID AND CHRISTINE PRATILAS
2818 BRIDALWREATH COURT
WOODBINE, MD 21797
FLAT NO. 19050
TAX MAP: 14 GRID: 0020 PARCEL: 0288 LOT: 15
SITE ADDRESS: LOT 15 BRIDALWREATH COURT
WOODBINE, MD 21797
- APPLICANT: BRIAN COLLINS
936 RIDGEBROOK RD
SPARKS, MD 21152
BRIAN.COLLINS@KCI.COM 410-316-7800
- PHONE NUMBER: 917-846-1807
DEED REF. 1985300209
LOT: 15
- BASE SQUARE FOOTAGE OF HOUSE: 4,140 SQ.FT.
- NUMBER OF BEDROOMS: 6
- EJECTOR PUMP REQUIRED TO SEWER BASEMENT
- DRIVEWAY CULVERT NOT REQUIRED PER THE APPROVED ROAD DRAWINGS, F-07-38.
- THE SUBJECT PROPERTY IS ZONED RC-DEO PER THE 2/2/04 COMPREHENSIVE ZONING PLAN AND PER COMP-LITE ZONING REGULATIONS DATED 7/28/06.
- BASE INFORMATION SHOWN ON THIS PLAN IS BASED ON PLANS PREPARED BY DMW, AND DATED 08/25/07. EXISTING TOPOGRAPHY BASED ON GRADING PLAN PREPARED BY DEMARIO DESIGN CONSULTANTS DATED 07/09/07 AND FIELD RUN TOPOGRAPHY PREPARED BY DDC INC IN JAN. 2012.
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- STORMWATER MANAGEMENT FOR THIS LOT IS PROVIDED PER THE PREVIOUSLY APPROVED FINAL PLAN (F-07-38).
- ANY DAMAGE TO PUBLIC "RIGHT-OF-WAYS" OR PAVED PUBLIC ROADS SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTORS EXPENSE IN ACCORDANCE WITH THE HOWARD COUNTY STANDARDS AND SPECIFICATIONS.
- DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE CIVIL ENGINEER (KCI TECHNOLOGIES) MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- THE DIMENSIONED DISTANCES SHALL GOVERN IF SCALED AND DIMENSIONED DISTANCES ON THIS PLAN ARE FOUND TO BE IN DISAGREEMENT.
- THE LOTS SHOWN HEREON COMPLY WITH THE MINIMUM LOT AREA AND OWNERSHIP WIDTH AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT.
- EXISTING WELLS, SEPTIC SYSTEMS, AND SEWAGE DISPOSAL AREAS WITHIN 100' OF THE PROPERTY AND THOSE WELLS WITHIN 200' DOWN GRADIENT OF EXISTING OR PROPOSED SEPTIC SYSTEMS OR SEWAGE DISPOSAL AREAS HAVE BEEN SHOWN.
- ANY CHANGES TO A PRIVATE SEWAGE AREA SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.
- UPON BUILDING PERMIT REVIEW THE SEPTIC SYSTEMS OF ALL PROPOSED STRUCTURES AND OR EXISTING STRUCTURE EXPANSIONS SHALL BE RE-EVALUATED TO DETERMINE SUFFICIENT SYSTEM CAPACITY.
- THE DEVELOPMENT OF THIS LOT DOES NOT REQUIRE AN ENVIRONMENTAL CONCEPT PLAN SINCE STORMWATER MANAGEMENT WAS PREVIOUSLY APPROVED UNDER F-07-38.
- THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA OF AT LEAST 10,000 SQ.FT. AS REQUIRED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED. THIS SEWAGE DISPOSAL AREA SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWERAGE SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE EASEMENT. RECORDATION OF A REVISED SEWAGE EASEMENT SHALL NOT BE NECESSARY.

EXISTING SEWAGE DISPOSAL SYSTEM DATA (6 BEDROOM):

- INVERT @ FOUNDATION WALL: 528.8 (BASEMENT PUMP REQUIRED)
- 600 GPD BNR SYSTEM W/ 750 GALLON PUMP CHAMBER
EX. GRADE OVER TANK: 532.0
PROPOSED GRADE OVER TANK: 532.0
INVERT: 527.8
- DISTRIBUTION BOX
EX & PROPOSED GRADE OVER TANK: 531.3
INVERT: 529.3
- TRENCH DESIGN (6 BDRM x 150 GPD/BDRM = 900 GPD)
900 GPD / 1.2 GPD/SF (APP. RATE) = 750 SF
USE 3" WIDE TRENCH W/ 24" OF GRAVEL BELOW PIPE
9" MIN SPACING BETWEEN TRENCH EDGES
750 SF / 3" WIDTH = 250 LF x 0.63 = 158 LF MIN. TRENCH
USE 2 - 79" LONG TRENCHES = 158 LF FOR INITIAL SYSTEM
USE 2 - 79" LONG TRENCHES = 158 LF FOR FIRST REPLACEMENT SYSTEM
USE 2 - 79" LONG TRENCHES = 158 LF FOR SECOND REPLACEMENT SYSTEM

LOT 15 EXISTING SYSTEM TRENCH SPECIFICATIONS

	GROUND ELEVATION	INVERT ELEVATION	BOTTOM ELEVATION
TRENCH 1 (79")	530	527	525
TRENCH 2 (79")	530.7	527.7	525.7

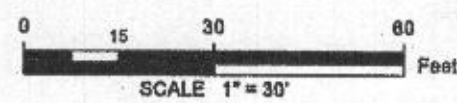


DRAWING LEGEND

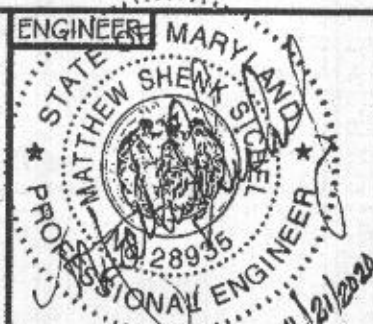
- 500 PROPOSED GRADE
- 502 EXISTING GRADE
- PROPOSED LIMIT OF DISTURBANCE
- + 665.5 PROP. SPOT ELEV./FLOW ARROW
- PROPOSED 20' SEPTIC RESERVE BUFFER
- EXISTING 30' WELL BUFFER
- EXISTING 100' WELL BUFFER
- PROPERTY LINE
- BUILDING RESTRICTION LINE
- SEPTIC RESERVE AREA
- ⊙ EXISTING WELL
- PASSED PERCOLATION TEST
- ⊗ FAILED PERCOLATION TEST

APPROVED FOR PRIVATE WATER AND PRIVATE SEWERAGE SYSTEMS

 HEALTH OFFICER, HOWARD COUNTY HEALTH DEPT. DATE: 1/22/21



PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THE INFORMATION SHOWN HEREIN IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF. LICENSE NO. 28935 EXPIRATION DATE: 1/15/2021



KCI TECHNOLOGIES
 ENGINEERS PLANNERS SCIENTISTS CONSTRUCTION MANAGERS
 936 RIDGEBROOK ROAD
 SPARKS, MARYLAND 21152
 TELEPHONE: (410) 316-7800
 FAX: (410) 316-7818

REVISIONS		DATE
NO.	DESCRIPTION	BY
		11/16/2020

SEPTIC RESERVE AREA REDESIGN
 BELLE HAVEN ESTATES
 LOT 15
 2818 BRIDALWREATH COURT
 WOODBINE, MARYLAND 21797

DRAWING NO.
 SHEET 1 OF 1
 KCI JOB NUMBER
 272008775